

Work Order ID 128205

128205

Page 1

Tuesday, January 13, 2015 9:05:34 AM

Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: AS350 Cable Cutters
 Start Date: 1/13/2015 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 1/13/2015 Req'd Qty: 1.00 *1* Customer:
 Reference:

Approvals: Process Plan: MLS Date: 15-01-13 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
 Run Start *NR1*
 Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	B								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

DAS 46
 9-89 MAR 12 2015

FEB 23 2015 DAS 46
 9-89

DAS 28 9-89
 DAS 28 9-89
 DAS 46 9-89
 MAR 12 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID 128205

Tuesday, January 13, 2015 9:05:34 AM

128205

Page 2

Item ID: 646.4001 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: AS350 Cable Cutters
 Start Date: 1/13/2015 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 1/13/2015 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001								
	Location: <u>FL 101</u>								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

(1x)

DAS
46
9-89

MAR 13 2015

15-03-26

MLJ

~~15-03-15~~

UNF

15-3-13

pull on Rework
130674

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Picklist Print

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Page 1

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.0112 *647 0112* Strut Bracket	DAS 46 9-89	Manufactured	No				Each	241.0000	**	2 ✓			DAS 06 9-89
Location Loc Qty Loc Code													
CCK109													
112215													
122245													
122871													
M130388													
647.7703 *647 7703* Strut Assembly	DAS 46 9-89	Manufactured	No				Each	0.0000	**	2 ✓			DAS 06 9-89
646.3301 *646 3301* Upper Cutter Assy	DAS 46 9-89	Manufactured	No				Each	10.0000	**	1 ✓			DAS 06 9-89
Location Loc Qty Loc Code													
CCK042													
124729													
CCK046													
120672													
122966													
124258													

FEB 18 2015

DAS
06
9-89
DAS
28
9-89

20

DAS
28
9-89

DAS
28
9-89

128211

Picklist Print

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Page 2

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3001

Manufactured No

Each

12.0000

1 ✓

DAS
06
9-89

646 3001 ✓

DAS
46
9-89

Lower Cutter Assy

Location

Loc Qty

Loc Code

CCK045

12

123145

1

124690

2

124731

2

124733

7

DAS
28
9-89

646.2910

Manufactured No

Each

1.0000

1 ✓

DAS
06
9-89

646 2910 ✓

DAS
46
9-89

Deflector

Location

Loc Qty

Loc Code

CCK050

1

120021

1

Each

24.0000

2 ✓

DAS
06
9-89

646.3810

Manufactured No

646 3810 ✓

DAS
46
9-89

Bracket

Location

Loc Qty

Loc Code

cck104

24

121817

10

123020

6

123683

4

124329

4

Each

13.0000

1 ✓

DAS
06
9-89

646.3510

Manufactured No

646 3510

DAS
46
9-89

Strut

Location

Loc Qty

Loc Code

cck101

13

120150

13

DAS
28
9-89

FEB 18 2015

Wednesday, January 14, 2015 9:51:38 AM

Shop Packet Print

Page 2

Picklist Print

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Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3511 Manufactured No

Each 12.0000

1 ✓

646 3511 ✓ **DAS 46**
Strut 9-89

DAS
05
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck102

12

120292

12

Each

12.0000

1

646.3512 Manufactured No

646 3512
Strut

Location

Loc Qty

Loc Code

cck102

12

126226

12

Each

15.0000

1

646.3513 Manufactured No

646 3513
Strut

Location

Loc Qty

Loc Code

cck102

15

110989

4

113944

1

126779

10

Each

2,973.0000

NAS1149F0332P Purchased No

NAS1149F0332P ✓ **DAS 46**
Washer 9-89

Location

Loc Qty

Loc Code

GA

222

122063

222

ST260a

2751

m130325

2000

m131026

751

DAS
06
9-89

ASB 1/7/2015

DAS
28
9-89

Picklist Print

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Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

MS21042L3

Nut

Purchased
DAS
46
9-89

No

Each

2,109.000

61
63
**

Location

Loc Qty

Loc Code

FP001

467

M130922

467

ST305

1639

M130799

39

M131264

1600

ST307

3

123900

3

Each

13.0000

1 ✓

**

Location

Loc Qty

Loc Code

cck020

13

122959

5

126780

8

Each

13.0000

1 ✓

**

Location

Loc Qty

Loc Code

CCK015

13

113729

13

Each

17.0000

1 ✓

**

Location

Loc Qty

Loc Code

cck020

17

124388

8

126777

9

FEB 17 2015

646.3110

646 3110

Channel

DAS
46
9-89

Manufactured

No

Each

13.0000

**

Location

Loc Qty

Loc Code

cck020

13

122959

5

126780

8

Each

13.0000

1 ✓

**

Location

Loc Qty

Loc Code

CCK015

13

113729

13

Each

17.0000

1 ✓

**

Location

Loc Qty

Loc Code

cck020

17

124388

8

126777

9

646.3710

646 3710

Doubler

DAS
46
9-89

Manufactured

No

Each

13.0000

**

Location

Loc Qty

Loc Code

CCK015

13

113729

13

Each

17.0000

1 ✓

**

Location

Loc Qty

Loc Code

cck020

17

124388

8

126777

9

646.3210

646 3210

Support

DAS
46
9-89

Manufactured

No

Each

17.0000

**

Location

Loc Qty

Loc Code

cck020

17

124388

8

126777

9

Wednesday, January 14, 2015 9:51:39 AM

Shop Packet Print

Page 4

Picklist Print

Wednesday, January 14, 2015 9:51:39 AM

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3713 **DAS** Manufactured No
646 3713 **46**
 Gusset 9-89

Location	Loc Qty	Loc Code
cck103	35	
120631	35	
	Each	298.0000

**

DAS
CS
9-89
DAS
28
9-89

MS24694-S51 Purchased No
MS24694-S51 **DAS**
 Screw 46
 9-89

Location	Loc Qty	Loc Code
ST289	298	
m130928	298	
	Each	31.0000

**

DAS
CS
9-89
DAS
28
9-89

AN3-13A Purchased No
AN3-13A **DAS**
 Bolt 46
 9-89

Location	Loc Qty	Loc Code
CA	5	
m129682	5	
GA	20	
m127070	20	
ST349	6	
m127070	6	
	Each	351.0000

**

DAS
CS
9-89
DAS
28
9-89

AN3-4A Purchased No
AN3-4A **DAS**
 Bolt 46
 9-89

Location	Loc Qty	Loc Code
CA	108	
m129682	108	
ST350	243	
m129702	243	

**

DAS
CS
9-89
DAS
28
9-89

Picklist Print

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Page 6

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

CR3213-5-3

Purchased

No

Each

100.0000

14 ✓

CR3213-5-3 / **DAS**

46

Cherry Rivet

9-89

DAS
06
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

CCK004

100

m127831

100

Each

351.0000

8 /

DAS
06
9-89

MS20470AD5-5.5

Purchased

No

MS20470AD5-5.5 / **DAS**

46

Rivet

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST310

351

123425

351

Each

51.0000

1 /

DAS
06
9-89

646.3711

Manufactured

No

646 3711 / **DAS**

46

Clip

9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck103

3

118823

3

cck126

48

120626

48

Each

41.0000

1 /

FEB 17 2015

646.3712

Manufactured

No

646 3712 / **DAS**

46

Clip

9-89

DAS
06
9-89

Location

Loc Qty

Loc Code

cck103

41

118825

1

120630

40

DAS
28
9-89

Picklist Print

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Page 7

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3811

Manufactured No

Each

38.0000

1

DAS

646 3811 ✓ DAS

Radius Block

46

9-89

**

DAS

05

9-89

DAS

28

9-89

Location

Loc Qty

Loc Code

cck104

38

107218

3

110717

20

122938

15

AN3-6A

Purchased

No

Each

172.0000

2

DAS

05

9-89

DAS

28

9-89

AN3-6A ✓ DAS

Bolt

46

9-89

**

Location

Loc Qty

Loc Code

ST349

172

M128739

72

M130466

100

MS24694-S55

Purchased

No

Each

13.0000

1

DAS

05

9-89

DAS

28

9-89

MS24694-S55 ✓ DAS

Screw

46

9-89

**

Location

Loc Qty

Loc Code

ST289

13

m128401

13

646.3610

Manufactured

No

Each

12.0000

1

DAS

05

9-89

DAS

28

9-89

646 3610 ✓ DAS

Filler

46

9-89

**

Location

Loc Qty

Loc Code

cck103

12

112887

2

124514

10

FEB 17 2015

Picklist Print

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Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3714

Manufactured No

Each

36.0000

1 /

646 3714 /

DAS
46
9-89

**

Gusset

Location

Loc Qty

Loc Code

cck103

36

120632

36

Each

1,232.000

8 /

**

MS20470AD5-6

Purchased No

MS20470AD5-6 /

DAS
46
9-89

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

342

105433

342

Each

16.0000

2 /

**

646.3812

Manufactured No

646 3812 /

DAS
46
9-89

Location

Loc Qty

Loc Code

cck104

16

122898

16

Each

336.0000

4 /

**

AN3-3A

Purchased No

AN3-3A /

DAS
46
9-89

Location

Loc Qty

Loc Code

ST350

336

m129591

336

FEB 17 2015

Bolt

DAS
46
9-89
DAS
28
9-89

Picklist Print

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Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3813 Manufactured No

Each 22.0000 1 /

646 3813 / DAS
Strut Bracket **46**
9-89

DAS
CS
9-89
DAS
28
9-89

Location	Loc Qty	Loc Code
cck104	22	
115021	4	
121503	10	
122968	4	
124265	4	

MS20470AD5-7 Purchased No

Each 608.0000 3 /

MS20470AD5-7 / DAS
Rivet **46**
9-89

DAS
CS
9-89
DAS
28
9-89

Location	Loc Qty	Loc Code
ST310	608	
123425	608	

MS21047-3 Purchased No

Each 98.0000 18 /

MS21047-3 / DAS
Nut Plate **46**
9-89

DAS
CS
9-89
DAS
28
9-89

Location	Loc Qty	Loc Code
ST303	98	
m130358	98	

CCR264SS3-02 Purchased No

Each 131.0000 36 /

CCR264SS3-02 / DAS
Rivet, Cherry **46**
9-89

M131340 x 33

DAS
CS
9-89
FEB 17 2015
DAS
28
9-89

Location	Loc Qty	Loc Code
ST321	131	
M128879	131	

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Shop Packet Print

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Picklist Print

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Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

AN3-5A

Purchased

No

Each

266.0000

2 ✓

DAS

AN3-5A

DAS
46

Bolt

9-89

**

M131420

DAS
66
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CA

151

m129682

151

FP001

69

m130325

69

GA

46

m129507

46

DAS
63
9-89

646.3715

Manufactured

No

Each

21.0000

2 ✓

646 3715

DAS
46

Strut Doubler

9-89

**

DAS
28
9-89

Location

Loc Qty

Loc Code

cck103

21

115101

1

123469

12

123700

8

Each

80.0000

6 ✓

DAS
63
9-89

MS27039-1-12

Purchased

No

MS27039-1-12

DAS
46

Screw

9-89

**

DAS
28
9-89

Location

Loc Qty

Loc Code

ST285

80

m128799

80

Each

16.0000

1 ✓

**

FEB 17 2015

646.3716

Manufactured

No

646 3716

DAS
46

Gauge Bracket

9-89

Location

Loc Qty

Loc Code

cck103

16

120167

2

122908

14

DAS
28
9-89

DAS
66
9-89

Wednesday, January 14, 2015 9:51:41 AM

Shop Packet Print

Page 10

Picklist Print

Page 11

Wednesday, January 14, 2015 9:51:41 AM

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS20426AD5-7

Purchased
DAS
46
9-89

No

Each

266.0000

2 ✓

**

DAS
66
9-89
DAS
28
9-89

MS20426AD5-7
RIVET

Location

Loc Qty

Loc Code

ST312

266

101340

266

2 ✓

MS24694-S54

Purchased
DAS
46
9-89

No

Each

54.0000

2 ✓

**

DAS
66
9-89
DAS
28
9-89

MS24694-S54
SCREW

Location

Loc Qty

Loc Code

ST289

54

m130928

54

4 ✓

MS27039-1-21

Purchased
DAS
46
9-89

No

Each

506.0000

4 ✓

**

DAS
66
9-89
DAS
28
9-89

MS27039-1-21
Screw

Location

Loc Qty

Loc Code

ST273A

495

m126319

100

m127904

395

ST284

11

124326

11

2 ✓

MS27039-1-20

Purchased
DAS
46
9-89

No

Each

282.0000

2 ✓

**

DAS
66
9-89
DAS
28
9-89

MS27039-1-20
Screw

Location

Loc Qty

Loc Code

ST284

282

124326

282

2 ✓

FEB 17 2015

Picklist Print

Page 12

Wednesday, January 14, 2015 9:51:41 AM

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

Each

574.0000

22 ✓

MS27039-1-19

Screw

DAS
46
9-89

**

DAS
05
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

GA

32

m124326

32

ST273A

401

m127904

401

ST284

141

125654

5

m127904

136

22

646.3717

Manufactured

No

Each

35.0000

1 /

646 3717

Doubler

DAS
46
9-89

**

DAS
03
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

cck103

35

114916

5

120633

30

1

646.3718

Manufactured

No

Each

22.0000

2 ✓

646 3718

Custom Washer

DAS
46
9-89

**

DAS
03
9-89
FEB 17 2015
DAS
28
9-89

Location

Loc Qty

Loc Code

cck104

22

110639

22

2

Picklist Print

Page 13

Wednesday, January 14, 2015 9:51:41 AM

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

646.3719

646 3719

Doubler

DAS
46
9-89

Manufactured No

Each

65.0000

2 ✓

DAS
66
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck104

34

120338

14

123589

20

cck126

31

120634

31

Each

753.0000

2 /

DAS
63
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

GA

250

m129541

250

ST285

503

m123522

60

m128635

41

m130358

402

Each

579.0000

8 /

DAS
63
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST338a

579

m125709

470

m130005

109

10

FEB 17 2015

AN3-11A

AN3-11A

Bolt

DAS
46
9-89

Purchased No

Wednesday, January 14, 2015 9:51:41 AM

Shop Packet Print

Page 13

Picklist Print

Wednesday, January 14, 2015 9:51:41 AM

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

600.0990
600 0990
 MAGNABOND 6398 PART A

DAS
46
 9-89

Purchased No

Each 5.0000

1

**

DAS
 CS
 9-89

Location

Loc Qty

Loc Code

MF

5

M129818

5

Each

5.0000

1

**

~~129878~~
 129037

600.0991
600 0991
 MAGNOBOND 6398 PART B

DAS
46
 9-89

Purchased No

Each 5.0000

1

**

~~129878~~ ~~129878~~

Location

Loc Qty

Loc Code

MF

5

130685

5

Each

21.0000

1

**

129037

DAS
 CS
 9-89

600.1012
600 1012
 Sealant PR1425B2 (#654 sem),

DAS
46
 9-89

Purchased No

Each 21.0000

1

**

DAS
 CS
 9-89

Location

Loc Qty

Loc Code

cck017

10

m129767

10

cck018

11

m129749

6

m130388

5

f

18.0000

8

**

DAS
 28
 9-89

600.0129
600 0129
 VHB TAPE 75935A651

DAS
46
 9-89

Purchased No

Loc Qty

Loc Code

CCK095

18

m127920

18

DAS
 CS
 9-89

DAS
 28
 9-89

FEB 17 2015

2 feet

Picklist Print

Page 15

Wednesday, January 14, 2015 9:51:42 AM

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

600.1013 Purchased No

Each 1,000.000

5 /

600 1013 /

DAS
46

**

DAS

CS

9-89

DAS
28

9-89

021200-3M TAPE PRIMER 94 PRIMER 24216

9-89

Location

Loc Qty

Loc Code

CCK095

1000

m131145

1000

6/15/2016

5 /

DAS

CS

9-89

DAS
28

9-89

646.3910

Manufactured No

Each

2.0000

4 /

646 3910 /

DAS
46

**

126228

Shim

9-89

Location

Loc Qty

Loc Code

cck104

2

120237

2

Each

25.0000

1 /

DAS

CS

9-89

646.3911

Manufactured No

646 3911 /

DAS
46

**

Shim

9-89

Location

Loc Qty

Loc Code

cck104

25

107669

1

118824

12

123075

12

Each

4.0000

4 /

**

126230

646.3912

Manufactured No

646 3912 /

DAS

46

Shim

9-89

Location

Loc Qty

Loc Code

cck104

4

121870

4

DAS

CS

9-89

DAS
28

9-89

FEB 17 2015

Picklist Print

Page 16

Wednesday, January 14, 2015 9:51:42 AM

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

DAS

Start Qty: 1.00

Required Qty: 1.00

06
9-89

646.3913

Manufactured No

Each 4.0000

646 3913

DAS

46

Shim

9-89

**

1 ✓
126058

DAS
28
9-89

Location

Loc Qty

Loc Code

cck104

4

107550

4

Each 202.0000

2 ✓

DAS

CS

9-89

DAS

28

9-89

AN3-12A

Purchased No

AN3-12A

DAS

46

Bolt

9-89

**

Location

Loc Qty

Loc Code

CA

69

m129682

69

ST349

133

m130566

133

Each 67.0000

2 ✓

DAS

CS

9-89

DAS
28
9-89

MS27039-1-16

Purchased No

MS27039-1-16

DAS

46

Screw

9-89

**

Location

Loc Qty

Loc Code

ST285

67

m130224

67

Each 64.0000

2 ✓

FEB 17 2015

AN44-5A

Purchased No

AN44-5A

DAS

46

Eyebolt

9-89

**

Location

Loc Qty

Loc Code

ST339

64

113791

9

124241

25

m123900

20

m126193

10

DAS

CS

9-89

DAS

28

9-89

Wednesday, January 14, 2015 9:51:42 AM

Shop Packet Print

Page 16

Picklist Print

Wednesday, January 14, 2015 9:51:42 AM

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

Each

3,572.000

2 ✓

DAS
06
9-89

MS21042L4 ✓

DAS
46
9-89

Locknut

Location

Loc Qty

Loc Code

DAS
28
9-89

FP001

42

m124231

42

GA

704

m127813

704

ST260a

2000

m130799

2000

ST305

826

426

426

m128300

8

m130922

392

AN316C4R

Purchased

No

Each

77.0000

2 ✓

AN316C4R ✓

DAS
46
9-89

NUT

Location

Loc Qty

Loc Code

DAS
06
9-89

DAS
28
9-89

ST331

77

112314

11

124561

25

m127584

8

m127618

20

m127838

13

FEB 17 2015

Picklist Print

Page 19

Wednesday, January 14, 2015 9:51:43 AM

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042-3 MS21042L3 Purchased No

Each 875.0000

MS21042-3 / **DAS**

Nut / use MS21042L3

46

9-89

2 /

116549

DAS
28
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CA	501	
M129682	501	
ST305	374	
M128770	274	
M129541	100	

MS27039-08-13 Purchased No

Each 479.0000

MS27039-08-13 / **DAS**

Screw

46

9-89

2 /

DAS
28
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

ST273A	346	
124326	346	
ST281	133	
123352	39	
4067	73	
M123185	21	

MS21042-08 MS21042L08 Purchased No

Each 32.0000

MS21042-08 / **DAS**

USE MS21042L08

46

9-89

2 /

130325

DAS
28
9-89

Location

Loc Qty

Loc Code

ST304	25	
122815	25	
ST306	7	
123185	3	
123525	4	

FEB 17 2015

DAS
28
9-89

Picklist Print

Page 20

Wednesday, January 14, 2015 9:51:43 AM

Work Order ID: 128205

128205

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutters

Start Date: 1/13/2015

Required Date: 1/13/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149FN832P

Purchased

No

Each

4,968.000

4 ✓

DAS
66
9-89

NAS1149FN832P

Washer

DAS
46
9-89

Location

Loc Qty

Loc Code

ST260a

3600

125268

3600

st268

1368

M130388

1368

4

FEB 17 2015
DAS
28
9-89

6509201

per Rev. B

x 2

B 130245

DAS
66
9-89

DAS
46
9-89

APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04731

SHEET 1 OF 2

DWG NO. 646.4000

REV: A

PREPARED
BY

J. SOTO

DATE: 11/04/2014

EFFECT ON DWG
☒ INC. ☐ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF.

NEXT ORDER

TRANSACTION CODES (TC):
A-ADD
R-REVISE
C-CREATE
D-DELETE

REASON: REVISED BOM. INCORPORATED ECN 03046 AND 03079.

RECEIVED
RECEIVED
RECEIVED
UNCONTROLLED COPY
SUBJECT TO ALIGNMENT
WITH THE PRICE
WORK ORDER

NO 128205.MLS

15-DI-13

76	A	601.2764	4	4	WASHER	NAS1149FN832P	
75	A	601.2973	2	2	LOCKNUT	MS21042-08	
74	A	601.2988	2	2	SCREW	MS27039-0813	
73	A	601.2943	2	2	LOCKNUT	MS21042-3	
72	A	601.3128	2	2	NUT	AN316C4R	
71	A	601.3209	2	2	LOCKNUT	MS21042L4	
70	A	601.2638	4	4	WASHER	NAS1149F0432P	
69	A	601.2669	2	2	BOLT	AN4C7A	
68	A	601.3119	2	2	CLEVIS	AN665-34R	
67	A	601.3121	2	2	EYE BOLT	AN44-57	
66	A	650.9201	2	2	EYE BRACKET ASSY		
51	R	601.2926	10	10	BOLT	AN3-11A	
12	R	601.1624	53	61	LOCKNUT	MS21042L3	
11	R	601.1607	120	138	WASHER	NAS1149F0332P	
8	R	647.7703	2	2	STRUT ASSY		
7	R	647.0112	2	2	STRUT BRACKET		
F/N/TC	PART NUMBER	.4003	.4001				
		QTY			DESCRIPTION	MATERIAL	SPECIFICATION

DOCUMENTS EFFECTED:

☐ MDL ☒ INSTALL INSTRUCTIONS ☒ ICA ☐ FMS ☒ BOM

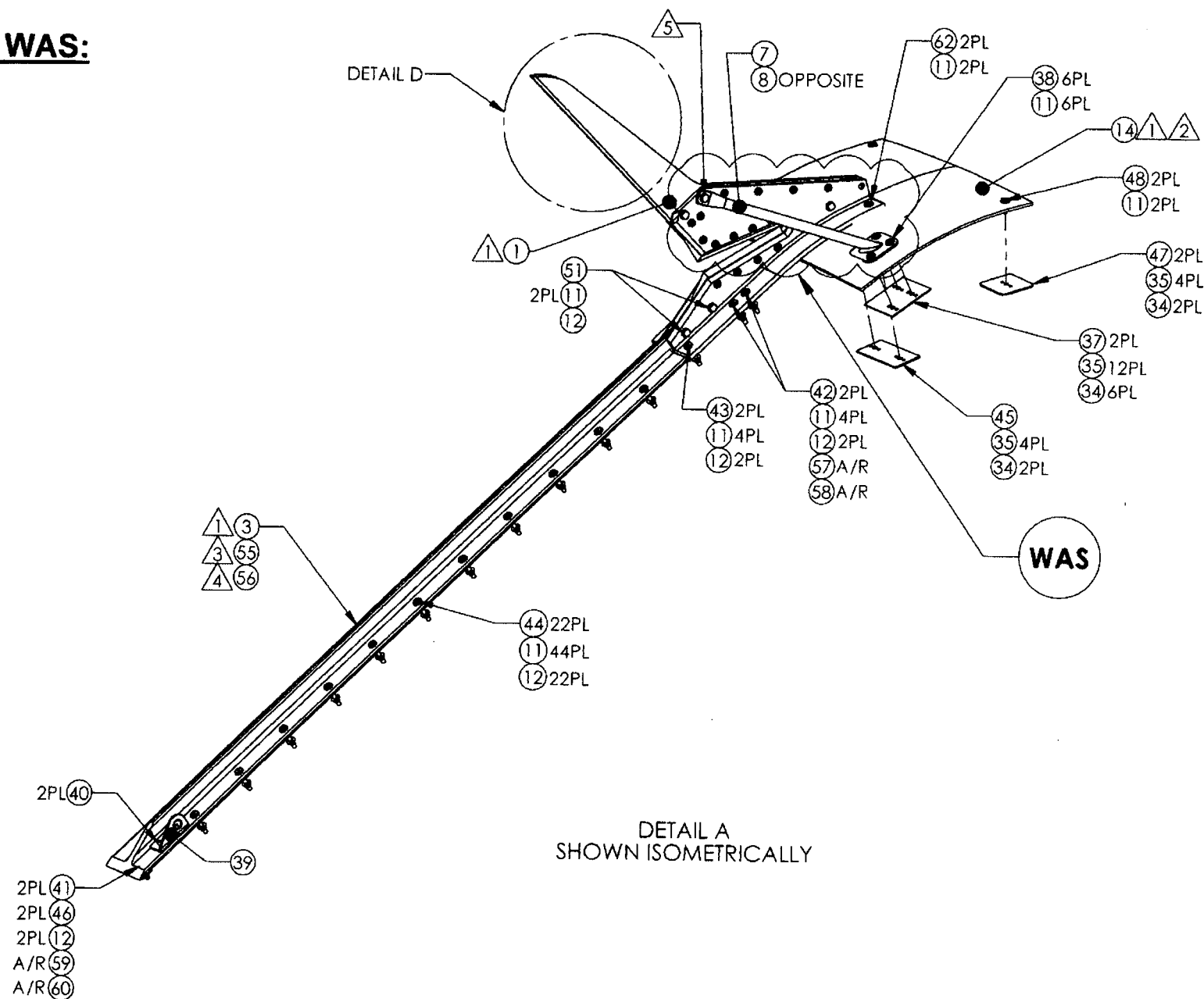
CHANGE CATEGORY

☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED

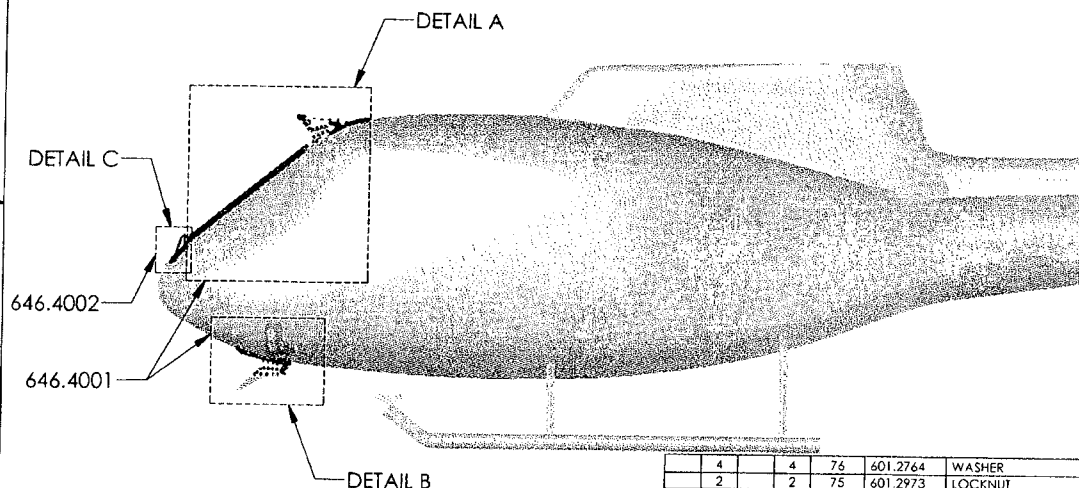
☐ YES ☒ NO

SHEET 2 WAS:



NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1

[illegible]

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECNS 02199, 02351, 02719 & 02765	02/08/2010	P. BRAVO
B	INCORPORATED ECN 03046, 03079 & 04731	11/01/2014	P. BRAVO

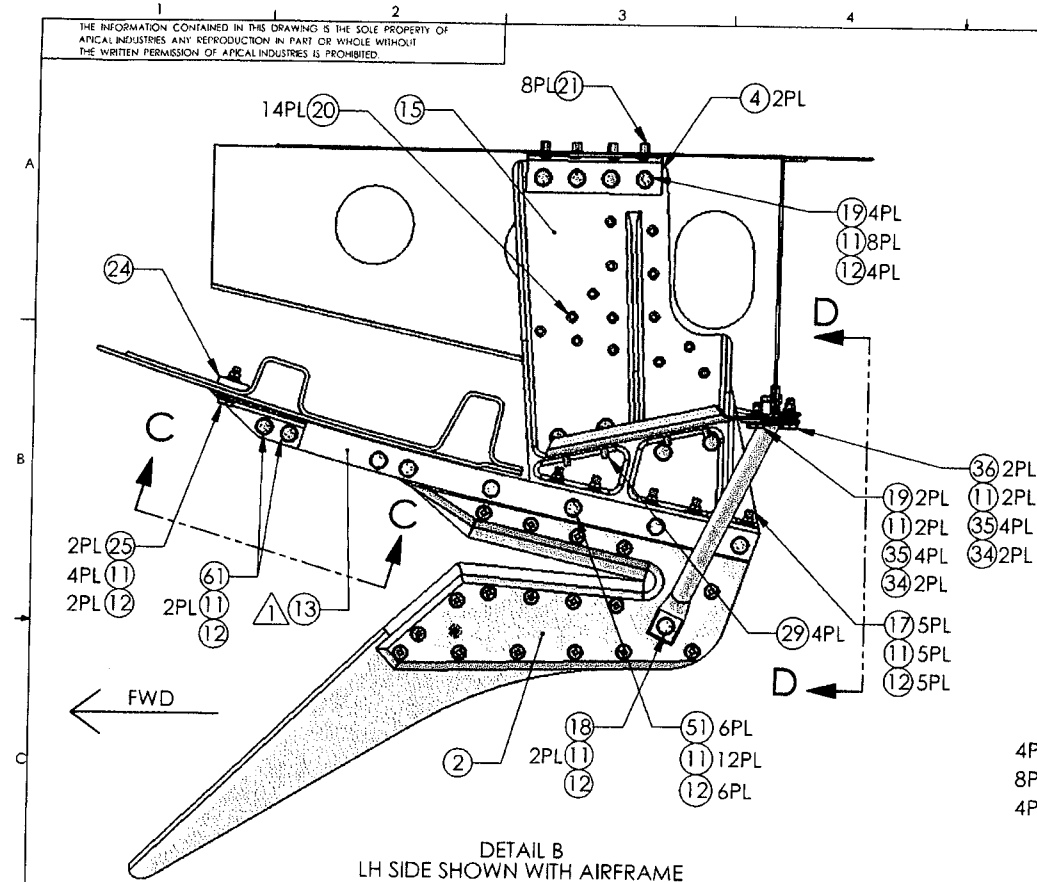
	8 FT		RFT	55	600.0129	VHB TAPE	
	1	1	1	54	600.1012	SEALANT	PR-142S CLASS B
	1		1	53	600.0991	MAGNABOND 6398 PART B	△
	1		1	52	600.0990	MAGNABOND 6398 PART A	△
	10		10	51	601.2826	BOLT	AN3-11A
		2		50	646.3814	WIPER BRACKET	
		2		49	601.2910	SCREW	MS27039-1-18
2			2	48	601.1365	SCREW	MS27039-1-10
2			2	47	646.3719	DOUBLER	
	2		2	46	646.3718	CUSTOM WASHER	
1			1	45	646.3717	DOUBLER	
	22	2	22	44	601.1948	SCREW	MS27039-1-19
	2		2	43	601.1952	SCREW	MS27039-1-20
	4		4	42	601.1956	SCREW	MS27039-1-21
	2		2	41	601.2829	SCREW	MS24694554
	2		2	40	601.2831	RIVET	MS20426AOS-7
	1		1	39	646.3716	GAUGE BRACKET	
	6		6	38	601.1953	SCREW	MS27039-1-12
2			2	37	646.3715	STRUT DOUBLER	
	2		2	36	601.2824	BOLT	AN3-5A
36			36	35	601.2277	RIVET	CCRPM453-02
18			18	34	600.0795	NUTPLATE	MS21047-3
3			3	33	601.2565	RIVET	MS20470ADS-7
1			1	32	646.3813	STRUT BRACKET	
4			4	31	601.2822	BOLT	AN3-3A
2			2	30	646.3812	GUSSET BRACKET	
8			8	29	601.2564	RIVET	MS20470ADS-6
1			1	28	646.3714	GUSSET	
	1		1	27	646.3610	FILLER	
	1		1	26	601.2830	SCREW	MS24694555
	2		2	25	601.2825	BOLT	AN3-6A
	1		1	24	646.3811	RADIUS BLOCK	
	1		1	23	646.3712	CLIP	
	1		1	22	646.3711	CLIP	
8			8	21	601.2832	RIVET	MS20470AD-5.5
14			14	20	601.2020	RIVET	CR3213-5-3
10			10	19	601.2823	BOLT	AN3-4A
	1		1	18	601.2827	BOLT	AN3-13A
	5		5	17	601.2912	SCREW	MS24694551
1			1	16	646.3713	GUSSET	
1			1	15	646.3210	SUPPORT	
1			1	14	646.3710	DOUBLER	
	1		1	13	646.3110	CHANNEL	
8	53	6	61	12	601.1624	LOCKNUT	MS21042L3
18	120	16	138	11	601.1607	WASHER	N4511-WP0232P
		1		10	646.3410	LH WIPER DEFLECTOR	
		1		9	646.3411	RH WIPER DEFLECTOR	
	2		2	8	647.7703	STRUT ASSY	
	2		2	7	647.0112	STRUT BRACKET	
	1		1	6	646.3511	STRUT	
	1		1	5	646.3510	STRUT	
2			2	4	646.3810	BRACKET	
	1		1	3	646.2910	DEFLECTOR	
	1		1	2	646.3001	LOWER CUTTER ASSY	
	1		1	1	646.3301	UPPER CUTTER ASSY	
X					646.4004	FIXED PROVISIONS KIT	
	X				646.4003	CABLE CUTTERS WITH WITHOUT REFS	
		X			646.4002	PROVIDING AS256 WIPER DEFLECTOR KIT	
			X		646.4001	AS350 CABLE CUTTERS KIT	
4004	4003	4032	4001	FIND #	PART #	DESCRIPTION	MATL SPEC

QTY		PARTS LIST	
NEXT ASSY (\$)		ORIGINAL DATE INC 04 05 10 08 27 08 DRAWN BY J. HUFF CHECKER P. BRAVO DRAWING APPROVAL P. BRAVO 08 27 08 CONTRACT NO.	
		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300 AS330 CABLE CUTTERS KIT	
(EXCESS OR OTHERWISE SPECIFIED INGREDIENTS ARE IN THESE TOLERANCES) SEE: 2 PLACES DECKARD 1 001 2 PLACES DECKARD 1 005 1 PLACES DECKARD 1 005 1 PLACES DECKARD 1 005		SEE B 07M26 SCALE NONE	DWG. NO. 646.4000 SHEET 1 OF 4

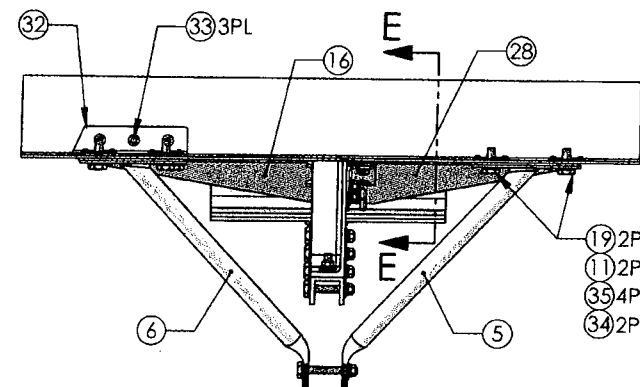
SCALE: NONE SHEET 2 OF 2

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

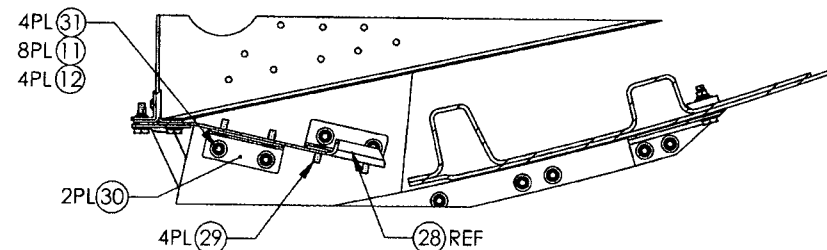
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



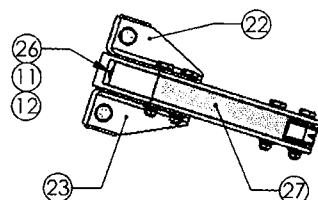
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

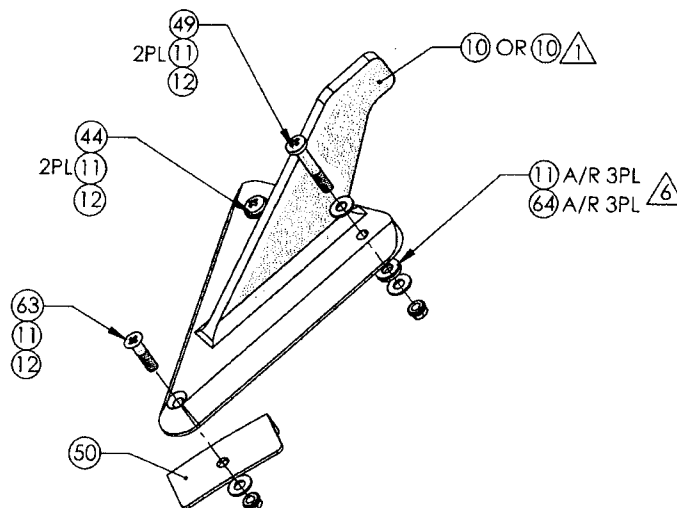


SECTION C-C

ORIGINAL DATE: 08-27-08 IMOD-DA-781		APICAL INDUSTRIES	
DRAWN BY: J. HURF 1. HURF		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL: P. BRAYO P. BRAYO		AS350 CABLE CUTTERS KIT	
CONTRACT NO:		SCALE: NONE	SHEET: 3 OF 4
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS: ±.01 3 PLACE DECIMALS: ±.005 ANGLES: ±.5°		REV: B	REV: B

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE (MM-DD-YY) 08-27-08		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY S. HUFF	CHECKED BY P. BRAYO		
DRAWING APPROVAL P. BRAYO 08-27-08		AS350 CABLE CUTTERS KIT	
COMPACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS ± .01 2 PLACE DECIMALS ± .005 ANGLES ± .5°			
TUL	CAGE CODE B 07M26	DWC. NO. 646.4000	REV. 3
SCALE NONE		1 SHEET 4 OF 4	

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

AS350 CABLE CUTTERS KIT

SHEET 4 OF 4

Work Order ID 128205

Tuesday, January 13, 2015 9:05:34 AM

128205

Page 1

Item ID: 646.4001

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: AS350 Cable Cutters

Stop

NS2

Start Date: 1/13/2015 Start Qty: 1.00

1

Cust Item ID:

Required Date: 1/13/2015 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: MLS

Date: 15-01-13 Tooling:

Date:

Run Start

NR1

QC:

Date: SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
646.4000	B

100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								

CL 15/02/18

110	Pick Kit	0.00							
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110									
Packaging	Memo	0.00							
Packaging									

120	QC4- 100% Inspect kits for completeness	0.00							
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120									
QC	Memo	0.00							
Quality Control									